

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of managing browser sessions, comprising:
receiving, at a first server, a request for a web page from a client, the client having a browser session established at another server; ~~and~~
providing, from the first server to the client, a web page including a heartbeat page element that transmits heartbeat messages to the another server to maintain a state of the browser session at the another server; ~~and~~
the client displaying the web page on a client display device.
2. (Currently Amended) The method of claim 1 further comprising:
providing, from the first server to the client, a monitor in the web page, the monitor in the web page detecting ~~that detects~~ whether the another server is available from responses to the heartbeat messages.
3. (Currently Amended) The method of claim 1 wherein the web page further includes a page identifier, and the method further comprises:
providing, from the first server to the client, a monitor in the web page, the monitor in the web page detecting ~~that detects~~ user inactivity if the page identifier is unchanged for a predetermined time.
4. (Currently Amended) The method of claim 1 wherein the web page further includes a state identifier, and the method further comprises:
providing, from the first server to the client, a monitor in the web page, the monitor in the web page detecting ~~that detects~~ server unavailability if the state identifier is invalid for a predetermined time.
5. (Currently Amended) The method of claim 1 further comprising:

the client accessing data from the state of the browser session being maintained at the another server by transmission of the heartbeat messages from the heartbeat page element in the web page.

6. (Currently Amended) The method of claim 1 further comprising:
providing, from the first server to the client, a proxy page element in the web page;
receiving, at the first server from the proxy page element, a request for a partial page update ~~from the proxy page element~~ in response to an event triggered in the web page;
communicating modification instructions from the first server to the proxy page element for the partial page update to page content in the web page, the modification instructions affecting less than the entire page content in the web page.
7. (Original) The method of claim 1 wherein the heartbeat page element is a Frame element, an IFrame element, or a Layer element.
8. (Currently Amended) A method of managing browser sessions, comprising:
establishing a browser session at a first server, resulting in generation of a session state at the first server;
redirecting from the browser session at the first server to a web page at a second server;
receiving, at the browser session, the web page from the second server, the web page including a heartbeat page element; and
transmitting heartbeat messages from the heartbeat page element within the received web page to the first server to maintain a state of the browser session while continuing to communicate
with the second server; and
displaying the web page on a client display device.

9. (Currently Amended) A method of managing browser sessions, comprising:
providing, from a server to a client, a web page including a page identifier and a monitor, the monitor detecting that detects user inactivity if the page identifier is unchanged for a predetermined time; and
the client displaying the web page on a client display device.
10. (Currently Amended) A method of managing browser sessions, comprising:
providing, from a server to a client, a web page including page content having a state identifier and a monitor, the monitor detecting that detects server unavailability if the state identifier is unchanged for a predetermined time; and
the client displaying the web page on a client display device.
11. (Currently Amended) A system of managing browser sessions, comprising:
a first server and a second server providing individual processes of a common workflow;
the first server establishing a browser session with a client, resulting in generation of a session state at the first server;
the first server redirecting the client from the browser session at the first server to a web page at the second server;
the second server receiving a request for a web page from the client;
the second server communicating the web page to the client, the web page including a heartbeat page element; and
the first server receiving heartbeat messages from the heartbeat page element, resulting in maintenance of the session state at the first server while the client communicates with the second server; and
displaying the web page on a client display device.
12. (Currently Amended) A system of managing browser sessions, comprising:
a server communicating a web page to a client, the web page including a page identifier and a monitor, the monitor detecting that detects user inactivity if the page

identifier is unchanged for a predetermined time; and
the client displaying the web page on a client display device.

13. (Currently Amended) A system of managing browser sessions, comprising:
a server communicating a web page to a client, the web page including page
content having a state identifier and a monitor, the monitor detecting that detects server
unavailability if the state identifier is unchanged for a predetermined time; and
the client displaying the web page on a client display device

14. (Currently Amended) An article of manufacture comprising a computer-readable
medium including computer instructions therein which when executed on a computer
perform a method of managing browser sessions, comprising:

~~a computer usable medium;~~

~~a set of computer operating instructions embodied on the medium, including
instructions for a method of managing browser sessions, comprising instructions for:~~

~~receiving, at a first server, a request for a web page from a client, the client
having a browser session established at another server; and~~

~~providing, from the first server to the client, a web page including a heartbeat
page element that transmits heartbeat messages to another server to maintain a state
of the browser session at the another server; and~~

the client displaying the web page on a client display device.

15. (Currently Amended) An article of manufacture comprising a computer-readable
medium including computer instructions therein which when executed on a computer
perform a method of managing browser sessions, comprising:

~~a computer usable medium;~~

~~a set of computer operating instructions embodied on the medium, including
instructions for a method of managing browser sessions, comprising instructions for:~~

~~establishing a browser session at a first server, resulting in generation of a
session state at the first server;~~

redirecting from the browser session at the first server to a web page at a second server;

receiving, at the browser session, the web page from the second server, the web page including a heartbeat page element; and

transmitting heartbeat messages from the heartbeat page element to the first server to maintain a state of the browser session while continuing to communicate with the second server; and

displaying the web page on a client display device.

16. (Currently Amended) An article of manufacture comprising a computer-readable medium including computer instructions therein which when executed on a computer perform a method of managing browser sessions, comprising:

~~a computer usable medium;~~

~~a set of computer operating instructions embodied on the medium, including instructions for a method of managing browser sessions, comprising instructions for:~~

~~providing, from a server to a client, a web page including a page identifier and a monitor, the monitor detecting that detects user inactivity if the page identifier is unchanged for a predetermined time; and~~

~~the client displaying the web page on a client display device.~~

17. (Currently Amended) An article of manufacture comprising a computer-readable medium including computer instructions therein which when executed on a computer perform a method of managing browser sessions, comprising:

~~a computer usable medium;~~

~~a set of computer operating instructions embodied on the medium, including instructions for a method of managing browser sessions, comprising instructions for:~~

~~providing, from a server to a client, a web page including page content having a state identifier and a monitor, the monitor detecting that detects server unavailability if the state identifier is unchanged for a predetermined time; and~~

~~the client displaying the web page on a client display device.~~

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)